

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/643,902	HASEGAWA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Christopher Onuaku	2621	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-7.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date ____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>8/20/03&amp;1/21/04</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material  | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other ____.   |

## DETAILED ACTION

### *Allowable Subject Matter*

1. Claims 1-7 are allowable over the prior art of record.
2. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 1, the invention relates to a realtime data recording method and apparatus having an arrangement allowing file data which was recorded without corresponding updated management data (e.g., due to an apparatus fault) to be accessed and management data related thereto to be updated, and is essentially useful for a camcorder recording system using an optical disk, a magneto-optical disk, or the like.

The closest reference Slomcenski et al (US 5,241,672) disclose an electronic printing system with plural hard disks for storing system files in which file management information is held in a Volume Allocation Table in internal system RAM memory with file management updates queued in Non Volatile Memory (NVM), with the contents of the Volume Allocation Table transferred to external disk memory when the queue of the file management updates in NVM reaches a predetermined size.

However, Slomcenski et al fail to explicitly disclose a realtime data recording method for recording data on a data recording medium by a recording apparatus, where the method further comprising wherein if a fault of recording the realtime management

data on the recording medium occurs, not allowing the recording medium to be removed from the apparatus until the realtime management data is updated and the updated realtime management data is recorded on the recording medium.

Regarding claim 2, the invention relates to a realtime data recording method and apparatus having an arrangement allowing file data which was recorded without corresponding updated management data (e.g., due to an apparatus fault) to be accessed and management data related thereto to be updated, and is essentially useful for a camcorder recording system using an optical disk, a magneto-optical disk, or the like.

The closest reference Slomcenski et al (US 5,241,672) disclose an electronic printing system with plural hard disks for storing system files in which file management information is held in a Volume Allocation Table in internal system RAM memory with file management updates queued in Non Volatile Memory (NVM), with the contents of the Volume Allocation Table transferred to external disk memory when the queue of the file management updates in NVM reaches a predetermined size.

However, Slomcenski et al fail to explicitly disclose a realtime data recording method for recording data on a recording medium by a recording apparatus, where the method further comprising wherein upon restarting a use of the recording medium after occurrence of a fault of recording the realtime management data, displaying a message indicating the fault, and if data directing recovery is inputted, updating the realtime

management data, then recording the updated realtime management data on the recording medium.

Regarding claim 4, the invention relates to a realtime data recording method and apparatus having an arrangement allowing file data which was recorded without corresponding updated management data (e.g., due to an apparatus fault) to be accessed and management data related thereto to be updated, and is essentially useful for a camcorder recording system using an optical disk, a magneto-optical disk, or the like.

The closest reference Slomcenski et al (US 5,241,672) disclose an electronic printing system with plural hard disks for storing system files in which file management information is held in a Volume Allocation Table in internal system RAM memory with file management updates queued in Non Volatile Memory (NVM), with the contents of the Volume Allocation Table transferred to external disk memory when the queue of the file management updates in NVM reaches a predetermined size.

However, Slomcenski et al fail to explicitly disclose a realtime data recording apparatus for recording data on a recording medium, where the apparatus further comprises wherein upon restarting a use of the recording medium after occurrence of a fault of recording the realtime management data, the displaying means displays a message indicating the fault, and if data directing recovery is inputted, the realtime management data means updates the realtime management data, then the recording means records the realtime management data on the recording medium.

***Conclusion***

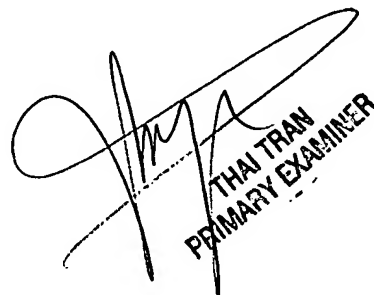
3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yokota (US 6,249,641) teaches a recording medium, including the type in which managing data for managing data recorded in a recording area are recorded, and a recording or reproducing apparatus and method for such a recording medium.

Nakamura et al (US 6,223,302) teach an information recording/reproducing unit, whereby recording and reproducing of data are performed, and a data medium for use in the foregoing recording and reproducing of data.

Brise et al (US 6,158,025) teach computer systems, including the detection and location of memory errors in memory of a computer system.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Onuaku whose telephone number is 571-272-7379. The examiner can normally be reached on M-F.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Groody can be reached on 571-272-7950. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.




THAI TRAN  
PRIMARY EXAMINER

Art Unit: 2621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
COO  
6/23/06

  
THAI TRAN  
PRIMARY EXAMINER